Virus Genes

Volume 8, No. 1

Editorial ..... *Y. Becker* 5

Detection of a 45 kD Protein Derived from the N Terminus of the Pea Seedborne Mosaic Potyvirus Polyprotein in Vivo and in Vitro ..... *M. Albrechtsen and B. Borkhardt* 7

Mapping of Marek's Disease Virus Genome: Identification of Junction Sequences Between Unique and Inverted Repeat Regions ..... *K. Makimura, F.-Y. Peng, M. Tsuji, S. Hasegawa, Y. Kawai, M. Nonoyama, and A. Tanaka* 15

Small RNA Expression from the Oncogenic Region of a Highly Oncogenic Strain of Herpesvirus Saimiri ... *P. Geck, S.A. Whitaker, M.M. Medveczky, T.J. Last, and P.G. Medveczky* 25

Studies on the Antigenicity and Nucleotide Sequence of the Rabies Virus Nishigahara Strain, a Current Seed Strain Used for Dog Vaccine Production in Japan ..... *S.-I. Sakamoto, T. Ide, H. Nakatake, S. Tokiyoshi, M. Yamamoto, A. Kawai, and J.S. Smith* 35

A Preliminary Translational Map of the Frog Virus 3 Genome ..... *P.D. Foglesong and D.B. Willis* 47

Open Reading Frames in a 4556 Nucleotide Sequence within MDV-1 BamHI-D DNA Fragment: Evidence for Splicing of mRNA from a New Viral Glycoprotein Gene ..... *Y. Becker, Y. Asher, E. Tabor, I. Davidson, and M. Malkinson* 55

Nucleotide and Deduced Amino Acid Sequences of Genes Encoding the Structural and Nonstructural NS1 Proteins of a Dengue-2 Virus Isolated in China .... *P.-Y. Yang, I. Kautner, C.-L. Koh, and S.-K. Lam* 71

Expression of Biologically Active Envelope Glycoprotein from the Acutely Pathogenic Simian Immunodeficiency Virus SIV_{smmPBj} ..... *S.A. González, J.L. Affranchino, and A. Burny* 75

Nucleotide Sequence of RNA 3 of the British Type Isolate (Blencowe Strain) of Tomato Aspermy Virus ..... *D. O'Reilly, C.J.R. Thomas, and R.H.A. Coutts* 79

Cyclosporin A Resistance of Herpes Simplex Virus-Induced "Fusion from Within" as a Phenotypical Marker of Mutations in the Syn 3 Locus of the Glycoprotein B Gene ..... *I. Walev, M. Lingen, M. Lazzaro, K. Weise, and D. Falke* 83

Volume 8, No. 2

Nucleotide Sequence of the Nucleoprotein Gene of the RC·HL Strain of Rabies Virus, a Seed Strain Used for Animal Vaccine Production in Japan ..... *H. Goto, N. Minamoto, H. Ito, M. Sugiyama, T. Kinjo, K. Mannen, K. Mifune, and A. Kawai* 91

Occurrence of Multiple JC Virus Variants with Distinctive Regulatory Sequences in the Brain of a Single Patient with Progressive Multifocal Leukoencephalopathy ..... *Y. Yogo, J. Guo, T. Iida, K.-I. Satoh, F. Taguchi, H. Takahashi, W.W. Hall, and K. Nagashima* 99

Cloning and Characterization of the cDNA Encoding the HA Protein of a Hemagglutination Defective Measles Virus Strain ..... *H. Saito, H. Sato, M. Abe, S. Harata, K.-I. Amano, T. Suto, and M. Morita* 107

Sequence Variation in the gp135 Gene of Maedi Visna Virus Strain EV1 ..... *N. Carey and R.G. Dalziel* 115

Characterization of the Gene Encoding the A-Type Inclusion Body Protein of Mousepox Virus ..... *N. Osterrieder, H. Meyer, and M. Pfeffer* 125

Mouse Polyomavirus Late Region Mutants Expressing a Defective VP2 Capsid Protein Exhibit an Enhanced Viral DNA Replication ..... *G. Melucci-Vigo, G. Magnusson, and G. Risuleo* 137

Baculovirus Expression of the Nucleocapsid Protein of a Puumala Serotype Hantavirus ... *C. Schuldt, L. Zöller, E.K.F. Bautz, and G. Darai* 143

Chilo Iridescent Virus Encodes a Putative Helicase Belonging to a Distinct Family within the "DEAD/H" Superfamily: Implications for the Evolution of Large DNA Viruses ..... *K.-C. Sonntag, P. Schnitzler, E.V. Koonin, and G. Darai* 151

Use of λgt11 to Identify Antigenic Components of Equine Herpesvirus 4 ..... *L. Wilson, J. Neilan, I. Brady, D. Coyle, and A.A. Cullinane* 159

Nucleotide Sequence of the Coat Protein Coding Region of Tulip Breaking Virus ..... *K. Ohira, S. Namba, M. Miyagawa, T. Kusumi, and T. Tsuchizaki* 165

Nucleotide Sequence of the 3′-Terminal Region of Citrus Tatter Leaf Virus RNA ..... *K. Ohira, T. Ito, A. Kawai, S. Namba, T. Kusumi, and T. Tsuchizaki* 169

Sequence of the S Fragment of Foot-and-Mouth Disease Virus Type A_{12} ..... *T. Bunch, E. Rieder, and P. Mason* 173

Volume 8, No. 3

Expression of Cloned Envelope Protein Genes from the Flavivirus Tick-Borne Encephalitis Virus in Mammalian Cells and Random Mutagenesis by PCR ..... *S.L. Allison, C.W. Mandl, C. Kunz, and F.X. Heinz* 187

Need for Cellular and Humoral Immune Responses in Bovines to Ensure Protection from Foot-and-Mouth Disease Virus (FMDV)—A Point of View ..... *Y. Becker* 199

Hepatitis B Virus Genome Is Organized into Nucleosomes in the Nucleus of the Infected Cell ..... *C.-T. Bock, P. Schranz, C. Hobe Schröder, and H. Zentgraf* 215

Functional Characterization of Partially Purified Epstein-Barr Virus DNA Polymerase Expressed in the Baculovirus System ..... *J.-C. Lin, B.K. De, and E.-C. Mar* 231

Predicted Stem-Loop Structures and Variation in Nucleotide Sequence of 3′ Noncoding Regions Among Animal Calicivirus Genomes ..... *B.S. Seal, J.D. Neill, and J.F. Ridpath* 243

HIV-1 Proteins in Infected Cells Determine the Presentation of Viral Peptides by HLA Class I and Class II Molecules and the Nature of the Cellular and Humoral Antiviral Immune Responses—A Review ..... *Y. Becker* 249

Reverse Misreading of a GC Doublet by the Modified T7 DNA Polymerase, Sequenase *T. Odagiri* 271

Nucleotide Sequence of the P1 Region of Serotype Asia1 Foot-and-Mouth Disease Virus *Y. Stram, O. Laor, T. Molad, D. Chai, D. Moore, H. Yadin, and Y. Becker* 275

Volume 9, No. 1

Characterization of a Marek's Disease Virus Mutant Containing a *LacZ* Insertion in the US6 (gD) Homologue Gene ..... *M.S. Parcells, A.S. Anderson, and R.W. Morgan* 5

Analysis of the Transcription Pattern of HSV-1 UL52 and UL53 Genes ..... *M. Moyal and Y. Becker* 15

A New Chinese Isolate of Hepatitis E Virus: Comparison with Strains Recovered from Different Geographical Regions ..... *S. Yin, R.H. Purcell, and S.U. Emerson* 23

Dengue Fever Virus and Japanese Encephalitis Virus Synthetic Peptides, with Motifs to Fit HLA Class I Haplotypes Prevalent in Human Populations in Endemic Regions Can Be Used for Application to Skin Langerhans Cells to Prime Antiviral $CD8^+$ Cytotoxic T Cells (CTLs)—A Novel Approach to the Protection of Humans ..... *Y. Becker* 33

A Novel Explanation for the Existence of Open Reading Frames on Latency-Associated Transcripts of Alphaherpesviruses ..... *Z. Boldogköi and J. Murvai* 47

Glycoprotein B of Bovine Herpesvirus Type 4: Its Phylogenetic Relationship to gB Equivalents of the Herpesviruses ..... *M. Goltz, H. Broll, A. Mankertz, W. Weigelt, H. Ludwig, H.-J. Buhk, and K. Borchers* 53

Molecular Characterization and Determination of the Coding Capacity of the Genome of Equine Herpesvirus Type 2 Between the Genome Coordinates 0.235 and 0.258 (The *Eco*RI DNA Fragment N; 4.2 kbp) ..... *H.-J. Rode, J.J. Bugert, M. Handermann, P. Schnitzler, R. Kehm, W. Janssen, H. Delius, and G. Darai* 61

Molecular Cloning and Nucleotide Sequence of the Coat Protein Gene of a Cuban Isolate of Potato Leafroll Virus and its Expression in *Escherichia coli* ..... *L. López, R. Muller, E. Balmori, G. de la Riva, N. Ramírez, V. Doreste, M. López, S. Peréz, P. Oramas, and G. Selman-Housein* 77

Sequence Variation of Human Papillomavirus Type 16 E7 in Preinvasive and Invasive Cervical Neoplasias ..... *Y. Fujinaga, K. Okazawa, A. Nishikawa, Y. Yamakawa, M. Fukushima, I. Kato, and K. Fujinaga* 85

Analysis of the Genetic Variability of Maize Streak Virus .... *R.W. Briddon, P. Lunness, L.C.L. Chamberlin, and P.G. Markham* 93

Volume 9, No. 2

Japanese Encephalitis Virus Nonstructural Protein NS3 Has RNA Binding and ATPase Activities ..... *T. Takegami, D. Sakamuro, and T. Furukawa* 105

Gene-Targeted Inhibition of Transactivation of Human Immunodeficiency Virus Type-1 (HIV-1)-LTR by Antisense Oligonucleotides ..... *I. Demirhan, O. Hasselmayer, D. Hofmann, A. Chandra, F.P. Svinarchuk, V.V. Vlassov, J. Engels, and P. Chandra* 113

Sequence and Genomic Organization of a Rabbit Haemorrhagic Disease Virus Isolated from a Wild Rabbit ..... *D. Rasschaert, S. Huguet, M.-F. Madelaine, and J.-F. Vautherot* 121

An Analysis of the Role of Skin Langerhans Cells (LC) in the Cytoplasmic Processing of HIV-1 Peptides After "Peplotion" Transepidermal Transfer and HLA Class I Presentation to $DC8^+$ CTLs—An Approach to Immunization of Humans ..... *Y. Becker* 133

Influence of Codon Usage and Translation Initiation Codon Context in the *Ac*NPV-Based Expression System: Computer Analysis Using Homologous and Heterologous Genes ..... *A. Ranjan and S.E. Hasnain* 149

Cleavage of Transcripts of Foot and Mouth Disease Virus (FMDV), Asial Serotype, by Ribozymes Targeted to the VP3 and VP4 Genes ..... *Y. Stram and T. Molad* 155

Augmentation of c-*fos* and c-*jun* Expression in Transgenic Mice Carrying the Human T-Cell Leukemia Virus Type-I *tax* Gene ..... *Y. Iwakura, M. Tosu, E. Yoshida, S. Saijo, J. Nakayama-Yamada, K. Itagaki, M. Asano, H. Siomi, M. Hatanaka, T. Takeda, T. Nunoya, S. Ueda, and H. Shibuta* 161

Predicted Structure of the Adenovirus DNA Binding Protein ..... *J.M. Weber, F. Cai, J. Horvath, and J.G. Guillemette* 171

Complete Sequence of the RNA Genome of Human Rhinovirus 16, a Clinically Useful Common Cold Virus Belonging to the ICAM-1 Receptor Group ..... *W.-M. Lee, W. Wang, and R. R. Rueckert* 177

Capsid Protein Gene Sequence of Feline Calicivirus Isolates 255 and LLK: Further Evidence for Capsid Protein Configuration Among Feline Caliciviruses .... *B.S. Seal and J.D. Neill* 183

Complete Nucleotide Sequencing of an HPV-1a Variant and Determination of Extant Errors in the Prototype HPV-1a Sequence ..... *J. Meissner* 189

Nucleotide Sequence of a Hop Stunt Viroid Variant Isolated from Citrus Growing in Taiwan ..... *Y.-H. Hsu, W. Chen, and R.A. Owens* 193

Volume 9, No. 3

Characterization of Conditions for the Activation of Endogenous Guinea Pig Retrovirus in Cultured Cells by 5-Bromo-2′-Deoxyuridine ..... *M.B. Lerner-Tung, S.-L. Doong, Y.-C. Cheng, and G.-D. Hsiung* 201

Endogenous Retroviruses in the Human Genome—A Point of View ..... *Y. Becker* 211

Molecular Cloning and Sequence Comparison of the S1 Glycoprotein of the Gray and JMK Strains of Avian Infectious Bronchitis Virus ..... *H.M. Kwon and M.W. Jackwood* 219

Two Types of Deletions in Orthopoxvirus Genomes ..... *S.N. Shchelkunov and A.V. Totmenin* 231

Characterization of Sublines of Epstein-Barr Virus Producing HR-1 Cells and Its Implication in Virus Propagation in Culture ..... *G.-Q. Yao, C.-H. Tsai, and Y.-C. Cheng* 247

Transcriptional Analyses of the Unique Short Segment of EHV-1 Strain Kentucky A ..... *C.F. Colle, III and D.J. O'Callaghan* 257

Transactivation of Human T-Cell Leukemia Virus Type 1 by Herpes Simplex Virus Type 1 ..... *S. Israel, M. Mendelovitz, and A. Honigman* 269

Sequence and Transcriptional Analysis of an Orf Virus Gene Encoding Ankyrinlike Repeat Sequences ... *J.T. Sullivan, K.M. Fraser, S.B. Fleming, A.J. Robinson, and A.A. Mercer* 277

Sequence Analysis of HIV-1 *Vif* Gene in Spanish Isolates ..... *I. Olivares, L. Menéndez-Arias, A. Rodríguez-Bernabé, M.J. Martín, J. Dopazo, and C. López-Galíndez* 283